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DATE MAILED: 05/19/2008

\$1020

08/19/2008

## NOTICE OF ALLOWANCE AND FEE(S) DUE

77032	7590	05/19/2008		EXAM	MINER
Joe McKinney Muncy			HSU, JONI		
PO Box 1364			ART UNIT	PAPER NUMBER	
Fairfax VA	22038-1364				

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/773,266 02/09/2004 Chi-Cheng Ju 3722-0176P 8567

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE \$300

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

nonprovisional

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

TITLE OF INVENTION: MEMORY ACCESS METHOD FOR VIDEO DECODING

\$720

YES

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence includired below or directed oth	or transmitting the ISSU ig the Patent, advance of nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wil pondence address; a	I be mailed to the curren nd/or (b) indicating a sep	should be completed where t correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Joe McKinney PO Box 1364 Fairfax, VA 220:	· ·	V2008		Certit	ficate of Mailing or Tran		
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,266	02/09/2004		Chi-Cheng Ju		3722-0176P	8567	
TITLE OF INVENTION					_	T	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE			
nonprovisional	YES	\$720	\$300	so \$1020		08/19/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
HSU,		2628	345-544000				
I. Change of correspondence address or indication of 'Fee Address' C: CFR 1.863.  Change of correspondence address (c Change of Correspondence Address from PTO/SB1/2) altached.  Tee Address 'Indication (or 'Fee Address' Indication form PTO/SB1/2) altached. Use of a Castome Number is required.  A SSIGNER PAME AND RESIDENCE DATA TO BE PRINTED O			2. For printing on the patent front page, list (1) the annes of up o 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agent. If no name is 1 steel, no name with be printed.				
PLEASE NOTE: Uni recordation as set forth (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the part a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assignee assignment. and STATE OR CO	UNTRY)	document has been filed for	
4a. The following fee(s) a	are submitted:	41	b. Payment of Fee(s): (Plea	se first reapply any	previously paid issue fee		
	s SMALL ENTITY state	as. See 37 CFR 1.27.			ENTITY status. Sec 37 C		
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	ered attorney or agent; or t	he assignee or other party in	
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Typed or printed name			Registration No.				
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,266		02/09/2004	Chi-Cheng Ju	3722-0176P 8567	
77032	7590	05/19/2008		EXAM	UNER
Joe McKinney	Joe McKinney Muncy			HSU, JONI	
PO Box 1364			ART UNIT	PAPER NUMBER	
Fairfax, VA 22038-1364				2628	
				DATE MAILED: 05/19/200	8

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
10/773,266	JU ET AL.	
Examiner	Art Unit	
JONEHSII	2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to March 6, 2008.
- The allowed claim(s) is/are 1,2,4,7-10,12,13 and 15.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) \( \subseteq \text{Some\* c} \) \( \subseteq \text{None of the:} \) a)  $\square$  All
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

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## DETAILED ACTION

## Response to Arguments

Applicant's arguments, see pages 7-8, filed March 6, 2008, with respect to Claims 1, 2, 4,
 7-10, 12, 13, and 15 have been fully considered and are persuasive. The 35 U.S.C. 103(a) rejections of Claims 1, 2, 4, 7-10, 12, 13, and 15 have been withdrawn.

# Allowable Subject Matter

- Claims 1, 2, 4, 7-10, 12, 13, and 15 are allowed.
   The following is an examiner's statement of reasons for allowance:
- 3. The prior art taken singly or in combination do not teach or suggest the combination of all the limitations of independent Claim 1. Independent Claims 10 and 13 are allowable for similar reasons. Dependent Claims 2, 4, 7-9, 12, and 15 each depend from one of these independent claims, and therefore also contain allowable subject matter.
- 4. The closest prior art (McGuinness US006104416A) teaches a method of storing an array of digital data into a memory (Col. 3, lines 14-16) having a plurality of memory pages, at least one memory page which only has a row with a plurality of memory cells (pixels in a row of one stripe are stored in a word, word address, Col. 8, lines 45-58), the method comprising the steps of dividing the array of digital data into a plurality of block units (Col. 3, lines 16-18) each of the block units having a plurality of odd rows and a plurality of even rows (Col. 11, line 51-Col. 12, line 13), each of the odd rows and the even rows having at least one byte (one byte of storage is required for each pixel, Col. 4, lines 47-48; putting 16 pixels into each row, Col. 11, lines 52-54); storing subsequent odd rows of at least one of the block units into consecutive storage locations in the first memory section (532) (Col. 11, lines 57-63), and storing subsequent even

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rows of at least one of the block units into consecutive storage locations in the second memory section (534) (Col. 11, line 65-Col. 12, line 13). However, McGuinness does not teach that at least one memory page has the first memory section and the second memory section; and that the first areas and the second areas in the first memory second and the second memory section respectively are in interlaced arrangement.

5. Another prior art (Perrin US005872577A) discloses at least one memory page which only has a row with a plurality of memory cells having a first memory section and a second memory section; and storing subsequent odd fields into consecutive storage locations in the first memory section, and storing subsequent even fields into consecutive storage locations in the second memory section (Col. 3, lines 1-9; Figure 3). However, Perrin does not teach the first and second areas of the first and second memory sections respectively having consecutive storage locations with each of the first and second numbers being larger than one; and that the first areas and the second areas in the first memory second and the second memory section respectively are in interlaced arrangement.

## Prior Art of Record

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McGuinness (US006104416A) teaches storing a digital array into a memory, the digital
array being partitioned into tiles, each having a predetermined number of rows and columns, and
arranged in such a manner as to allow for easy retrieval of the subsequent row upon the retrieval
of the preceding row (Col. 3, lines 14-26).

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2. Perrin (US005872577A) teaches the access to memories being effected with an alternate addressing of each of two banks for storing information in such conditions that the luminance information of 4 macroblocks of the odd field (or even field) of the memory page is evenly divided into two banks in a memory, and that the chrominance information of 8 macroblocks of the odd field (or even field) of a memory page is evenly divided into the two banks in a memory and, for each bank, into two successive pages (Col. 2, lines 13-29).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONI HSU whose telephone number is (571)272-7785. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Kee M Tung/ Supervisory Patent Examiner, Art Unit 2628